

120. (new) A device of claim 117, wherein said vertically oriented carbon nanotube is at least partially electrically isolated from the said substrate.

121. (new) A device comprising:

at least one vertically oriented carbon nanotube; and

at least one horizontal conductive layer, wherein the said horizontal conductive layer is electrically coupled to said vertically oriented carbon nanotube.

122. (new) A device of claim 121, wherein the said horizontal conductive layer includes patterned lines.

123. (new) A device of claim 121, wherein the said horizontal conductive layer includes a blanket deposited film.

124. (new) A device of claim 121, wherein said carbon nanotube is conductive.

125. (new) A device of claim 121, wherein said horizontal conductive layer material comprises a member of the class consisting of aluminum, copper, tungsten, titanium, nickel, chromium, and their alloys.

126. (new) A device comprising:

at least one vertically aligned carbon nanotube, wherein said vertically aligned carbon nanotube is fabricated within vertically aligned holes within a substrate material; and

at least one horizontal conducting interconnect, wherein said interconnect is electrically coupled to said vertically aligned carbon nanotube.

127. (new) A device of claim 126, wherein said substrate material comprises a member of the class consisting of silicon, silicon nitride, silicon dioxide, aluminum, alumina, and gallium arsenide.

128. (new) A device of claim 126, wherein a plurality of said vertically aligned carbon nanotubes form a pattern in the said substrate material.